·M·C·C·

Micro Commercial Components

RB501V-40

0.1 Amp Schottky Barrier Rectifier 40 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Marking: 4
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Epoxy meets UL 94 V-0 flammability rating
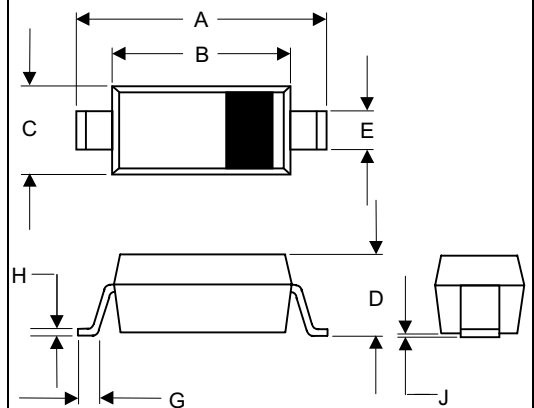- Moisture Sensitivity Level 1

Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	45	V
DC Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_O	100	mA
Peak Forward Surge Current	I_{FSM}	1	A
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-55 to +125	℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage @ I_F=100mA @ I_F=10mA	V_F	---	---	0.55 0.34	V
Reverse Current @V_R=10V	I_R	---	---	30	uA
Capacitance Terminal @V_R=10V, f=1MHz	C_T	---	6.0	---	pF

SOD-323

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

DIMENSIONS

SUGGESTED SOLDER PAD LAYOUT

0.074"

0.027"

0.022"

www.mccsemi.com

RB501V-40

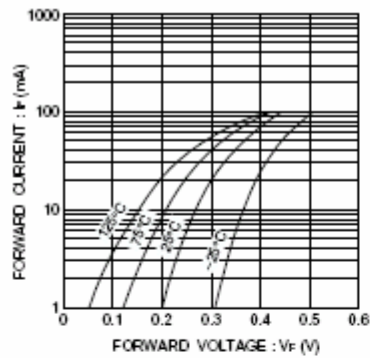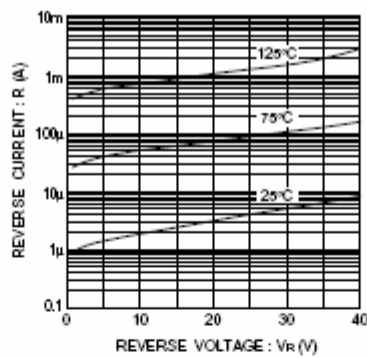●**Electrical characteristic curves** (Ta = 25°C)

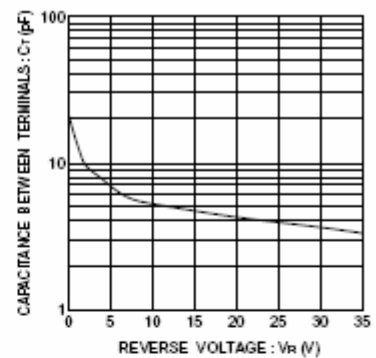Fig. 1 Forward characteristics

Fig. 2 Reverse characteristics

Fig. 3 Capacitance between
terminals characteristics

Fig. 4 Derating curve
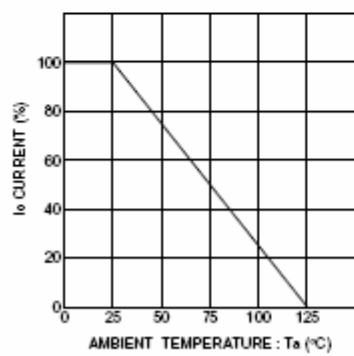(mounting on glass epoxy PCBs)

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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AMEYA360
Components Supply Platform

Authorized Distribution Brand :

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